Cruise Instructions

Date Submitted:	April 1, 2010
Platform:	NOAA Ship *Okeanos Explorer*
Cruise Number:	EX-10-04
	Leg I (transit, mapping/CTD ops)
Project Title:	Indonesia Exploration
Cruise Dates:	June 8 – 20, 2010

Prepared by: /S/ Catalina Martinez
Catalina Martinez
NOAA Office of Ocean Exploration & Research

Approved by: _____ Date: _____
John McDonough
Acting Director
NOAA Office of Ocean Exploration & Research

Approved by: _____ Date: _____
Captain Michael S. Devany, NOAA
Commanding Officer
Marine Operations Center – Atlantic

Introduction

The Indonesia-U.S. Ocean Exploration Partnership (INDEX) Sangihe Talaud (SATAL) 2010 Ocean Exploration Expedition is a joint expedition between NOAA Ship *Okeanos Explorer* and the Indonesian Research Vessel Baruna Jaya IV, and is intended to symbolize a long-term commitment to partnership between NOAA and representative Indonesian scientific ministries and agencies. While Baruna Jaya IV will conduct parallel operations in support of the INDEX-SATAL mission, this cruise plan covers only the operations of NOAA Ship *Okeanos Explorer*.

I. **Overview**

A. Cruise Period

This cruise plan covers leg I (June 8 – 20) of the 2010 Indonesian Ocean Exploration Partnership Expedition associated with transit, mapping and CTD operations in Indonesian waters. Activities will occur sequentially as described unless there is major discovering dictating a change in operations by the lead scientist in the ECCs. However the operations will be limited to the designated Indonesia exploration outline box (Figure 2).

B. Operating Area

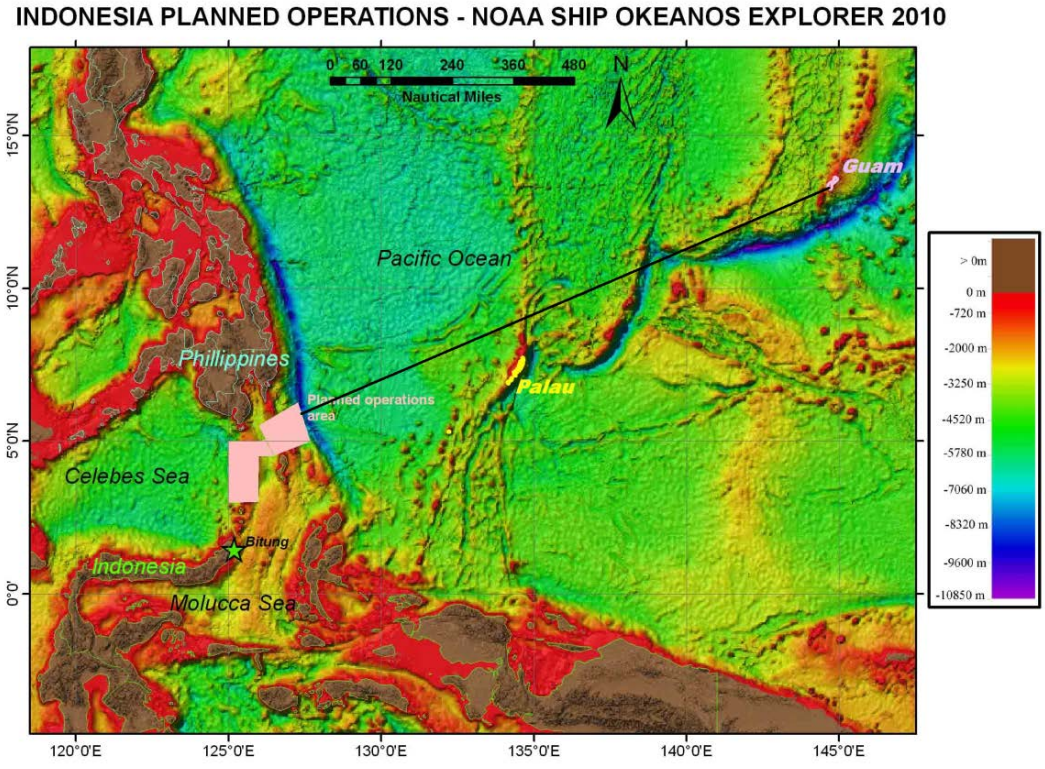

Fig. 1: Overview of *Okeanos Explorer* transit and operating area for the 2010 INDEX SATAL Expedition.

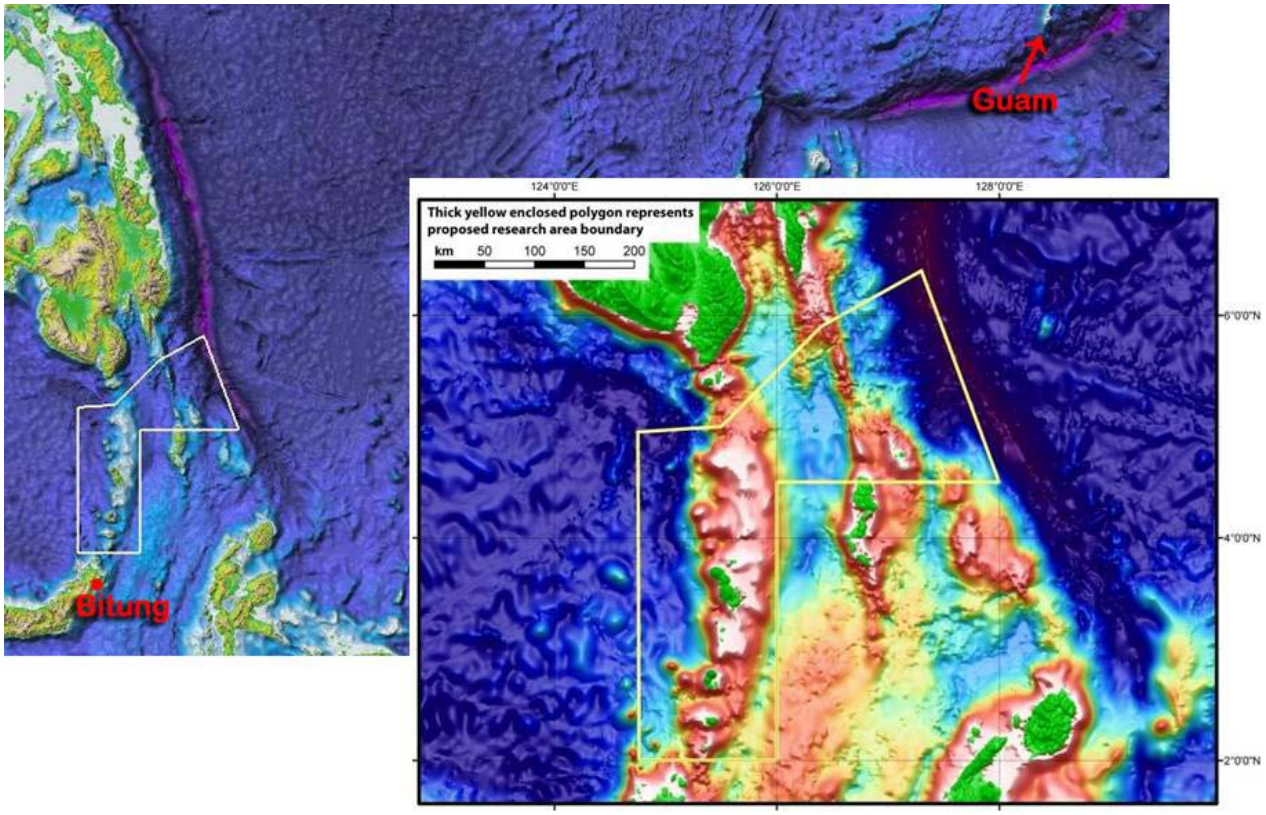

Fig. 2: Map showing the operation areas of the 2010 INDEX SATAL Expedition

Point ID	Longitude (E)	Latitude (N)
1	126, 0, 0	2° 0' 0"
2	124° 45' 36"	2° 0' 0"
3	126° 0' 0"	4° 30' 0"
4	128° 0' 0"	4° 30' 0"
5	127° 17' 59.99"	6° 24' 0"
6	126° 24' 0"	5° 54' 0"
7	125° 30' 0"	5° 0' 0"
8	124° 45' 0"	4° 57' 0"

Table 1: Location of bounding box as depicted in Figure 2.

The operating area of Leg I of the 2010 INDEX SATAL Expedition extends from Guam in the Marianas Islands, west to the operating area in the Molucca Sea shown in figure 1, and southwest to Bitung, Indonesia.

C. Summary of Objectives

Leg I (June 8 – 20, 2010**):**

This leg consists of 5 days of transit between Guam and Indonesian working grounds, and 8 days of operations, including transit to Bitung, Indonesia. Operations will focus on mapping and CTD operations. Objectives include collection of baseline data to support Leg II and III ROV operations, and refinement of CTD and Tow-Yo operations. Additional objectives include Exploration Command Center training (ECC), and refinement of communication pathways. In the event of bad weather or other unforeseen events, *Okeanos Explorer* will focus on mapping operations.

1. Mapping operations
    a. Collect multibeam and possibly single-beam data during transit to working grounds. Data will not be collected while in transit through EEZs of countries other than Guam. Data will be collected during transit through high seas only. While inside Indonesia EEZ, mapping operations will only be conducted in area described in Figure 2 (and Table 1).
    b. Test mapping capability in extra deep-water (5,000 m +)
    c. Collect baseline data for CTD and ROV Operations
        A. Map box shown in Figure 3.
        B. Map seamounts and volcanic targets
    A. Ongoing system familiarization and training

2. CTD operations
    a. Collect baseline data to aid in the selection of ROV dive targets
    b. Refine CTD Operations for night time operations
    c. Test/Refine Tow-Yo operations

3. Communications between ship and shore
    a. Develop SOPs and Chain of Command documents
    b. Access to PLONE
    c. Indonesia ECC
    d. UNH ECC
    e. PMEL ECC
    f. URI ISC
    g. Silver Spring ECC

4. Data management
    a. See the Data Management Plan in Appendix C.

D. Participating Institutions

National Oceanic and Atmospheric Administration
Office of Ocean Exploration and Research (OER)

1315 East-West Hwy, Silver Spring, Maryland 20910

University of New Hampshire (UNH),
Center for Coastal and Ocean Mapping (CCOM)
24 Colovos Road, Durham, NH 03824 USA

Agency for Marine and Fisheries Research
Ministry of Marine Affairs and Fisheries (DKP)
Jl Pasir Putih I
Ancol Timur Jakarta Utara 14430
DKI Jakarta, Indonesia

Agency for the Assessment and Application of Technology (BPPT)
Technology Center for Marine Survey
Jalan MH. Thamrin 8, BPPT Building I, 18th Floor, Jakarta Pusat, Indonesia 10340

Department of Defense (DEPHAN), Indonesia

Indonesian National Defense Forces (TNI), Indonesia

E. Personnel (Science Party)

The staffing plans for each leg will be developed and submitted with the final cruise plan. All drafts are subject to change. Assume all 19 mission berths will be utilized by OER mission personnel on each leg.

Leg I Personnel on EX (transit, mapping/CTD ops) June 8 – 20, 2010:

#	Name	Affiliation	Role	M/F	Status
1	Jeremy Potter	OER	Expedition Coordinator	M	US Citizen
2	Michael Purwoadi	Indonesia	Science Lead	M	Indonesian
3	Cecep Sujana	Indonesia	Science	M	Indonesian
4	Eko Triarso	Indonesia	Science	M	Indonesian
5	TBD	Indonesia	Indonesian TNI Official	M	Indonesian
6	Kevin Roe	US	Science Lead	M	US Citizen

7	Mashkoor Malik	OER	Mapping Watch Leader	M	US Permanent Resident
8	Megan Nadeau	OER	Mapping Watchstander	F	US Citizen
9	Lillian Stuart	NOAA Augmenter	Mapping Watch stander	F	US Citizen
10	Tom Kok	OER	Mapping Watchstander	M	US Citizen
11	Karl McLetchie	OER	Mapping Watchstander	M	US Citizen
12	Joel DeMello	OER	Mapping Watchstander	M	US Citizen
13	Webb Pinner	OER	Telepresence Technician	M	US Citizen
14	Roland Brian	OER	Telepresence Technician	M	US Citizen
15	Joe Biscotti	OER	Telepresence Technician	M	US Citizen
16	Brian Brinckman	OER	Telepresence Technician	M	US Citizen
17	Tom Pierce	OER	Telepresence Technician	M	US Citizen

Leg 1 Personnel in Exploration Command Centers (ECCs)

Name	Affiliation	Role	Location
Steve Hammond	OER	US Chief scientist	Jakarta, Indonesia
Sugiarta Wiransantosa	BRKP	Indonesia Chief Scientist	Jakarta, Indonesia
John McDonough	OER	OER Deputy Director	Jakarta, Indonesia
David McKinnie	OAR	US / Indonesia liaison	Jakarta, Indonesia
Ed Baker	PMEL	US Scientist	PMEL Seattle, WA

David Butterfield	PMEL	US Scientist	PMEL Seattle, WA
Sharon Walker	PMEL	US Scientist	PMEL Seattle, WA
Joe Resing	PMEL	US Scientist	PMEL Seattle, WA
Craig Russell	OER	OER Mission support	PMEL Seattle, WA
Dough Jongeward	PMEL	ECC Technical Support	PMEL Seattle, WA
Catalina Martinez	OER	OER Mission support	ISC, Narragansett, RI
Elizabeth Lobecker	OER	OER Mission support	UNH, Durham, NH

F. Administrative

Key Points of Contact

Marine Operations Center, Atlantic (MOA)
439 West York Street
Norfolk, VA 23510-1145
Telephone: (757) 441-6776
Fax: (757) 441-6495

Chief, Operations Division, Atlantic (MOA1)
CDR Keith Roberts
Telephone: 757-441-6842
E-mail: ChiefOps.MOA@noaa.gov

Marine Operations Center, Pacific (MOP)
1801 Fairview Avenue East
Seattle, WA 98102-3767
Telephone: (206) 553-4548
Fax: (206) 553-1109

Chief, Operations Division, Pacific (MOP1)
CDR Mike Francisco
Telephone: 206-553-8705
Email: ChiefOps.MOP@noaa.gov

Mission Operations

Mashkoor Malik, Mapping Lead
NOAA Ocean Exploration & Research (ERT, Inc.)
Phone: 603-862-4332/ 603-377-6319
E-mail: mashkoor.malik@noaa.gov

CDR Joe Pica, NOAA
Commanding Officer
NOAA Ship *Okeanos Explorer*
Phone: 401-378-8284
Email: CO.Explorer@noaa.gov

LT Nicola VerPlanck, Field Operations Officer
NOAA Ship *Okeanos Explorer*
Phone: 321-960-3726
E-mail: OPS.Explorer@noaa.gov

Other Mission Contacts

Craig Russell, EX Program Planner
NOAA Ocean Exploration & Research (ERT, Inc.)
Phone: 206-526-2803 / 206-518-1068
E-mail: Craig.Russell@noaa.gov

John McDonough, Deputy Director
NOAA Ocean Exploration & Research
Phone: 301-734-1023 / 240-676-5206
E-mail: John.McDonough@noaa.gov

Catalina Martinez
Regional Manager
NOAA Ocean Exploration & Research
Phone: 401-874-6250 (o)/ 401-330-9662 (c)
Email: Catalina.martinez@noaa.gov

Jeremy Potter
EX Expedition Coordinator
NOAA Ocean Exploration $ Research
Phone : 202-482-1075
Email : Jeremy.Potter@noaa.gov

Webb Pinner, Systems Engineer
NOAA Ocean Exploration & Research (2020, Inc.)
Phone: 401-749-9322
Email: webb.pinner@noaa.gov

Shipments

Be sure to send an email to the EX Ops Officer OPS.Explorer@noaa.gov indicating the size and number of items being shipped and the name of person it is being shipped to.

Important Note: Under the new customs rules, the Okeanos Explorer will actually be imported into Indonesia. Please do not send any containers for sampling. Putting all the equipment on the ship (including spares, consumables, etc.) before it departs from Hawaii is preferable. The backup would be to ship items to Guam but NOT INDONESIA.

Address all shipment with delivery date prior to May 19, 2010 to:
NOAA Ship Okeanos Explorer
1897 Ranger Loop
Building 184
Honolulu, HI 96818

Items to be sent to the ship between May 19 and June 3 should be sent to Guam:

US Coast Guard Sector Guam
Attn: NOAA Ship Okeanos Explorer
PSC 455, Box 176
FPO AP 96540-1056

Indonesia Port Agent:

Glenn Defense Marine (Asia) Pte Ltd
POC: Howard M. Patty
15D Pandan Road
Singapore 609266
Tel: (65) 62685300
Fax: (65) 62626689
Mobile: (65) 97983163
Email: glenncom@glennmarinegroup.com

G. Diplomatic Clearances

Okeanos Explorer will not have permission to collect data in foreign waters of Philippines, Republic of Palau and Federated States of Micronesia. Only the International waters or high seas (outside national EEZs) are open for mapping and other scientific data collection.

This cruise involves Marine Scientific Research in water under the Jurisdiction of Indonesia. Diplomatic clearance has been requested, and the research will be conducted in collaboration with Indonesian government and marine agencies, and will include a TNI security officer aboard *Okeanos Explorer* during the Expedition.

Security Clearance

A request for security clearance and to have a security officer onboard the ship has been made to the Department of Defense.

Indonesia foreign research vessel clearance

An official request for an Indonesian foreign research vessel clearance has been made by Dr. Steve Hammond, and is in progress. The permit was cleared by the Foreign Vessel Research Permit Coordinating committee in mid-December. Foreign Vessel Research Clearance still needs to be obtained by the Ministry of Transportation and the Ministry of Defense. David McKinnie (NOAA/OAR) is the U.S. Point of contact for status reports, and Budi Sulistiyo (DKP) is our Indonesian partner pushing the request through the system.

There are two remaining clearances from the department of defense and ministry of transportation:

1. Ministry of transportation clearance (can't be given until we have a port agent under contract)

2. Security clearance (can't be granted until the ministry of transportation clearance is granted)

See appendix B for a copy of the Indonesia foreign research vessel clearance.

H. Licenses and Permits

This cruise will be conducted under the _____ permit issued by _____ on __(date)___ to __(date)___ .

A research permit request has been made to the State Ministry of Research and Technology.

Wendy Bradfield-Smith (NOAA) submitted UN Form A to the Department of State on February 19, 2010. This is separate but related to the Indonesian clearance, and approval is expected May 2010. See appendix A for a copy of the UN Form A (Application for Consent to Conduct Marine Scientific Research in Areas Under National Jurisdiction of Republic of Indonesia).

II. **Operations**

A. Cruise Plan Itinerary

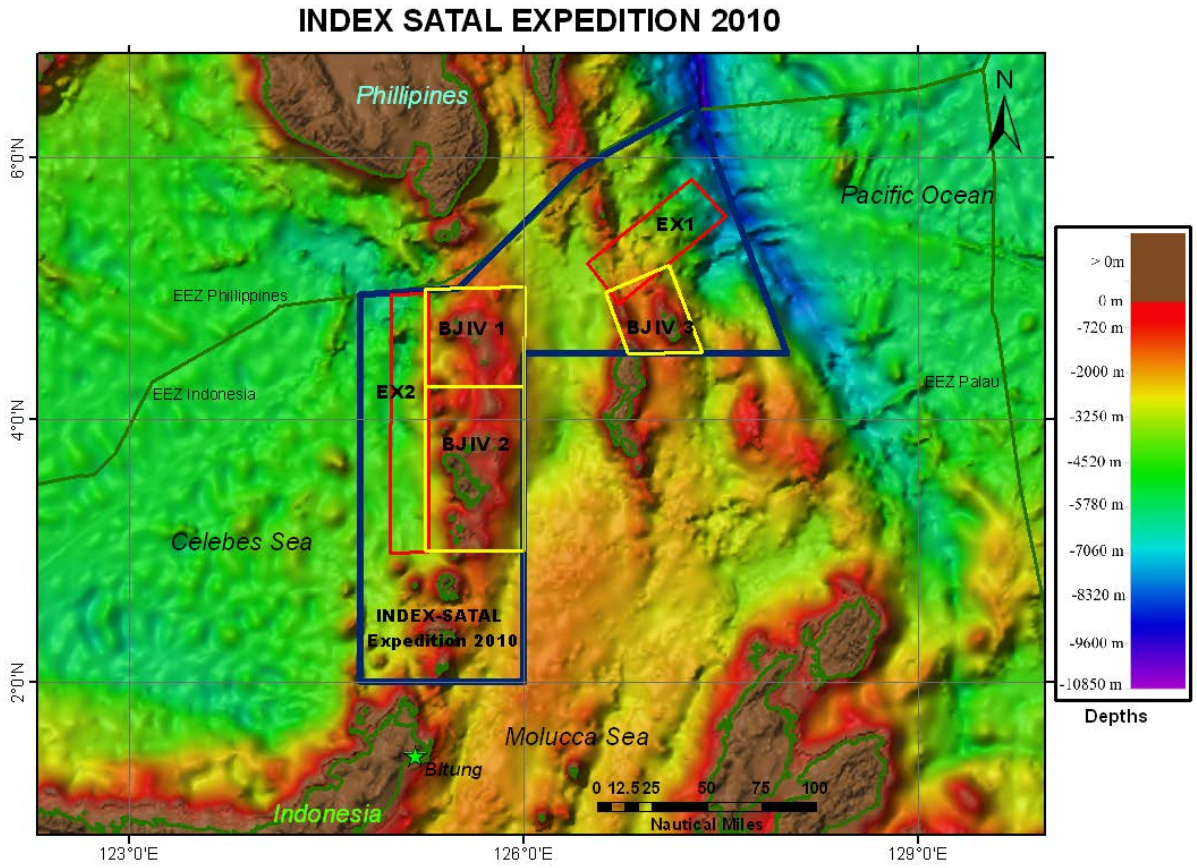

Fig 3: Overview of the working grounds. Shown is the exploration areas for NOAA Ship Okeanos Explorer (EX1 and EX2) and for R/V Baruna Jaya IV (BJIV 1, BJIV 2 and BJIV 3). Locations of these exploration boxes are provided in Table 2.

Mapping exploration areas for NOAA Ship Okeanos Explorer and R/V Baruna Jaya IV				
EX1	**EX2**	**BJIV 1**	**BJIV 2**	**BJIV 3**
127.28E 5.83N	125.00E 4.95N	125.25E 4.25N	125.25E 3.00N	127.36E 4.51N
127.53E 5.54N	125.28E 4.96N	125.25E 5.00N	125.25E 4.25N	127.10E 5.18N
126.72E 4.88N	125.30E 3.00N	126.00E 5.00N	126.00E 4.25N	126.62E 4.90N
126.48E 5.10N	125.00E 3.00N	126.00E 4.25N	126.00E 3.00N	126.79E 4.50N

Table 2: Locations of mapping exploration areas as identified in Figure 3.

Feature Name	Position	Remarks
Kawio Barat	125.08E 4.68N	A CTD cast will be conducted on top of the feature
Banua Wuhu	124.99E 3.15N	-
Cross-calibration line which will be run by both EX and BJIV	125.28E 4.47N 125.28E 4.56N	Cross calibration line to compare EX and BJIV multibeam data.
CTD cast	NE corner of EX1	Will be decided once EX arrives in EX1 exploration area

Table 3: Coordinates of points of interest.

Leg I (June 8 – 20, 2010**):**

Okeanos Explorer will depart Guam on June 8th and arrive at the southeast corner of exploration area EX1 (Fig. 3) on June 13th to commence 3 days of 24-hr mapping (with possible CTD casts). After completing a survey of the EX1, EX will transit west across to expedition area EX2 mapping several of the seamounts and features of interest (as indicated in Table 3) and conducting CTD casts over the course of 5 days en route to Bitung.

ACTIVITIES TABLE for Leg I:

Dates	Location	Mapping/ CTD ops	Telepresence/ VSAT
6/8 – 6/13	TRANSIT Depart Guam and transit to exploration area EX1	Multibeam data acquisition and processing; potential CTD casts	Test equipment and software; test VSAT connection
6/13- 6/15	Conduct mapping exploration in exploration area EX1	Multibeam data acquisition and processing; CTD casts; potential tow-yo's	Support 24-hr ops to include mapping, and conduct a CTD cast in NE corner of EX1

6/15- 6/16	TRANSIT to exploration area EX2	Multibeam data acquisition and processing; CTD casts; potential tow-yo's	Support 24-hr ops to include mapping
6/16- 6/19	Conduct mapping exploration in exploration area EX2	Multibeam data acquisition and processing; CTD casts; potential tow-yo's	Support 24-hr ops to include mapping, and CTD casts
6/19-6/20	Transit to Bitung, Indonesia	Multibeam data acquisition and processing while operating in INDEX-SATAL expedition area	Support 24-hr ops for mapping
06/20-06/24	INPORT Arrive at Bitung		Test equipment and software; test VSAT connection

B. Applicable Restrictions

NOT APPLICABLE TO THIS CRUISE

III. **Equipment**

A. Equipment and capabilities provided by the ship

- Kongsberg Simard EM302 Multibeam Echosounder (MBES)
- Kongsberg Simrad EA600 Deepwater Echosounder
- Knudsen 3260 Sub-bottom profiler (SBP)
- LHM Sippican XBT (various probes)
- Seabird SBE 911Plus CTD
- Seabird SBE 32 Carousel and 24 2.5 L Niskin Bottles
- CNAV GPS
- POS/MV
- Seabird SBE-45 (Micro TSG)
- Kongsberg Dynamic Positioning-1 System
- NetApp mapping storage system
- CARIS HIPS Software
- IVS Fledermaus Software
- SIS Software
- Hypack Software
- Scientific Computing System (SCS)
- ECDIS
- Met/Wx Sensor Package
- Telepresence System
- VSAT High-Speed link (Comtech 20 Mbps and 10 Mbps ship to shore)

- Cruise Information Management System (CIMS)
- Little Hercules ROV
- Camera Platform

B. Equipment and capabilities provided by the scientists

PMEL will possibly provide additional CTD sensors (MAPr's) and an altimeter with cable.

IV. **Hazardous Materials**

A. Policy and Compliance

The Expedition Coordinator is responsible for complying with MOCDOC 15, Fleet Environmental Compliance #07, Hazardous Material and Hazardous Waste Management Requirements for Visiting Scientists, released July 2002. Documentation regarding those requirements will be provided by the Chief of Operations, Marine Operations Center, upon request.

By Federal regulations and NOAA Marine and Aviation Operations policy, the ship may not sail without a complete inventory of all hazardous materials by name and the anticipated quantity brought aboard, MSDS and appropriate neutralizing agents, buffers, and/or absorbents in amounts adequate to address spills of a size equal to the amount of chemical brought aboard. The amount of hazardous material arriving and leaving the vessel shall be accounted for by the Expedition Coordinator.

B. Radioactive Isotopes

NOT APPLICABLE TO THIS CRUISE

C. Inventory

NOT APPLICABLE TO THIS CRUISE

V. **Additional Projects**

A. Supplementary ("Piggyback") Projects

NOT APPLICABLE TO THIS CRUISE

B. NOAA Fleet Ancillary Projects

NOT APPLICABLE TO THIS CRUISE

VI. **Disposition of Data and Reports**

A. Data Responsibilities

All data acquired on EX will be provided to the public archives without proprietary rights. All data management activities shall be executed in accordance with NAO 212-15, MANAGEMENT OF ENVIRONMENTAL AND GEOSPATIAL DATA AND

INFORMATION
[http://www.corporateservices.noaa.gov/ames/NAOs/Chap_212/naos_212_15.html].

Ship Responsibilities

The Commanding Officer is responsible for all data collected for missions until those data have been transferred to mission party designees. Data transfers will be documented on NOAA Form 61-29. Reporting and sending copies of project data to NESDIS (ROSCOP form) is the responsibility of OER.

NOAA OER Responsibilities

The Expedition Coordinator will work with the EX Operations Officer to ensure data pipeline protocols are followed for final archive of all data acquired on the EX without proprietary rights.

Deliverables

a. At sea
   - Daily plans of the Day (POD)
   - Daily situation reports (SITREPS)

b. Post cruise
   - Refined SOPs for all pertinent operational activities
   - Assessments of all activities

c. Science
   - CTD data and multibeam data from CTD cast locations on CDs

Archive

- The Program and ship will work together to ensure documentation and stewardship of acquired data sets in accordance with NAO 212-15. The Cruise Information Management System is the primary tool used to accomplish this activity.

B. Pre and Post Cruise Meeting

Pre-Cruise Meeting

Prior to departure, the Expedition Coordinator will conduct a meeting of the scientific party to inform them of cruise objectives. Some vessel protocols, e.g., meals, watches, etiquette, etc. will be presented by the ship's Operations Officer.

Post-Cruise Meeting

Upon completion of the cruise, a meeting will normally be held at 0830 (unless prior alternate arrangements are made) and attended by the ship's officers, the Expedition Coordinator and members of the scientific party to review the cruise. Concerns regarding safety, efficiency, and suggestions for improvements for future cruises should be discussed.

Shipboard Meetings

Daily Operations Briefing meetings will be held at 1530 in the forward lounge to review the current day, and define operations, associated requirements and staffing needs for the following day. A Plan of the Day (POD) will be posted each evening for the next day in specified locations throughout the ship. A safety brief and overview of POD will occur on the Bridge each morning at 0800. Daily Situation Reports (SITREPS) will be posted as well and shared daily through e-mail and/or the EX PLONE site (http://terra.gso.uri.edu/NOAAShipOkeanosExplorer).

C. Ship Operation Evaluation Report

Within seven days of the completion of the cruise, a Ship Operation Evaluation form is to be completed by the Expedition Coordinator. The preferred method of transmittal of this form is via email to OMAO.Customer.Satisfation@noaa.gov. If email is not an option, a hard copy may be forwarded to:

Director, NOAA Marine and Aviation Operations
NOAA Office of Marine and Aviation Operations
8403 Colesville Road, Suite 500
Silver Spring, MD 20910

VII. **Physical Security – Risk Management**

Indonesia is a potentially volatile region not only from terrorist attacks but also natural disasters, and the consequence of an attack or natural disaster could significantly impact the project outcome.

A. Piracy/Terrorism Mitigation

Background

U.S. government-designated terrorist organizations are known to operate in Indonesia. Some have carried out several bombings at various times from 2002 to 2009. While Indonesia's counterterrorism efforts have been ongoing and partly successful, violent elements still demonstrated a willingness and ability to carry out deadly attacks with little or no warning. November 2008 discussions between the CO and defense attaché determined that the working area for the project is not a high risk area. An Indonesian Defense Liaison has been requested aboard the ship during the project period.

B. Natural Disaster Mitigation Plan

Background

Indonesia has more active volcanoes than any other country. They have experienced a number of devastating earthquakes and tsunamis

C. Shipboard Safety

Wearing open-toed footwear or shoes that do not completely enclose the foot (such as sandals or clogs) outside of private berthing areas is not permitted. Steel-toed shoes are required to

participate in any work dealing with suspended loads, including CTD deployments and recovery. The ship does not provide steel-toed boots. Hard hats are also required when working with suspended loads. Work vests are required when working near open railings and during small boat launch and recovery operations. Hard hats and work vests will be provided by the ship when required.

Operational Risk Management: For every operation to be conducted aboard the ship (NOAA-wide initiative), risk management procedures will be followed. For each operation, risks will be identified and assessed for probability and severity. Risk mitigation strategies / measures will be investigated and implemented where possible. After mitigation, the residual risk will have to be assessed to make Go-No Go decisions for the operations. Particularly with new operations, risk assessment will be ongoing and updated as necessary. This does not only apply to over-the-side operations, but to everyday tasks aboard the vessel that pose risk to personnel and property.

- CTD (and other pertinent) ORM documents will be followed by all personnel working on board the EX
- All personnel on board are in the position of calling a halt to operations/activities in the event of a safety concern.

VIII. **Miscellaneous**

A. Meals and Berthing

Meals and berthing are required for up to 19 scientists. Meals will be served 3 times daily beginning one hour before scheduled departure, extending throughout the cruise, and ending two hours after the termination of the cruise. Since the watch schedule is split between day and night, the night watch may often miss daytime meals and will require adequate food and beverages (for example a variety of sandwich items, cheeses, fruit, milk, juices) during what are not typically meal hours. Special dietary requirements for scientific participants will be made available to the ship's command at least seven days prior to the survey (e.g., Expedition Coordinator is allergic to fin fish).

Berthing requirements, including number and gender of the scientific party, will be provided to the ship by the Expedition Coordinator. The Expedition Coordinator and Operations Officer will work together on a detailed berthing plan to accommodate the gender mix of the scientific party taking into consideration the current make-up of the ship's complement. The Expedition Coordinator is responsible for ensuring the scientific berthing spaces are left in the condition in which they were received; for stripping bedding and linen return; and for the return of any room keys which were issued. The Expedition Coordinator is also responsible for the cleanliness of the laboratory spaces and the storage areas utilized by the scientific party, both during the cruise and at its conclusion prior to departing the ship.

All NOAA scientists will have proper travel orders when assigned to any NOAA ship. The Expedition Coordinator will ensure that all non NOAA or non Federal scientists aboard also have proper orders. It is the responsibility of the Expedition Coordinator to ensure that the entire scientific party has a mechanism in place to provide lodging and food and to be reimbursed for

these costs in the event that the ship becomes uninhabitable and/or the galley is closed during any part of the scheduled project.

All persons boarding NOAA vessels give implied consent to comply with all safety and security policies and regulations which are administered by the Commanding Officer. All spaces and equipment on the vessel are subject to inspection or search at any time. All personnel must comply with OMAO's Drug and Alcohol Policy dated May 7, 1999 which forbids the possession and/or use of illegal drugs and alcohol aboard NOAA Vessels.

B. Medical Forms and Emergency Contacts

The NOAA Health Services Questionnaire (NHSQ, Revised: 08/08) must be completed in advance by each participating scientist. The NHSQ can be obtained from the Expedition Coordinator or the NOAA website at NOAA HEALTH SERVICES QUESTIONNAIRE. The completed form should be sent to the Regional Director of Health Services at Marine Operations Center. The participant can mail, fax, or scan the form into an email using the contact information below. The NHSQ should reach the Health Services Office no later than 4 weeks prior to the cruise to allow time for the participant to obtain and submit additional information that health services might require before clearance to sail can be granted. Please contact MOC Health Services with any questions regarding eligibility or completion of the NHSQ. Be sure to include proof of tuberculosis (TB) testing, sign and date the form, and indicate the ship or ships the participant will be sailing on. Clearances are valid for 2 years for personnel under age 50 and 1 year for age 50 and over. All PPD's expire after one year from the date of administration. The participant will receive an email notice when medically cleared to sail if a legible email address is provided on the NHSQ.

Contact information:

Regional Director of Health Services
Marine Operations Center – Atlantic
439 W. York Street
Norfolk, VA 23510
Telephone 757.441.6320
Fax 757.441.3760
E-mail: MOA.Health.Services@noaa.gov

Prior to departure, the Expedition Coordinator must provide a listing of emergency contacts to the Operations Officer for all members of the scientific party, with the following information: name, address, relationship to member, and telephone number.

D. Communications

Specific information on how to contact the NOAA Ship *Okeanos Explorer* and all other fleet vessels can be found at: http://www.moc.noaa.gov/phone.htm

Important Telephone and Facsimile Numbers and E-mail Addresses

Ocean Exploration and Research (OER):

OER Program Administration:

Phone: (301) 734-1010
Fax: (301) 713-4252
E-mail: Firstname.Lastname@noaa.gov

University of New Hampshire, Center for Coastal and Ocean Mapping

Phone: (603) 862-3438
Fax: (603) 862-0839

NOAA Ship *Okeanos Explorer* - Telephone methods listed in order of increasing expense:

EX Cellular:
OOD (401) 378-7414

EX Iridium:
(808) 659-9179

EX INMARSAT B
Line 1: 011-872-764-852-328
Line 2: 011-872-764-852-329

Voice Over IP (VoIP) Phone:
301-713-7772 (expect a delay once picked up by directory)

Mission personnel may obtain access to these systems with permission from the Commanding Officer on a cost-reimbursable basis.

E-Mail: Ops.Explorer@noaa.gov (mention the person's name in SUBJECT field)

expeditioncoordinator.explorer@noaa.gov
For dissemination of all hands emails by Expedition Coordinator while on board. See ET for password.

E. IT Security

Any computer that will be hooked into the ship's network must comply with the NMAO Fleet IT Security Policy prior to establishing a direct connection to the NOAA WAN. Requirements include, but are not limited to:

1. Installation of the latest virus definition (.DAT) file on all systems and performance of a virus scan on each system.
2. Installation of the latest critical operating system security patches.
3. No external public Internet Service Provider (ISP) connections.

Completion of these requirements prior to boarding the ship is preferable.

Non-NOAA personnel using the ship's computers or connecting their own computers to the ship's network must complete NOAA's IT Security Awareness Course within 3 days of embarking.

F. Foreign National Guests Access to OMAO Facilities and Platforms

All foreign national access to the vessel shall be in accordance with NAO 207-12 and RADM De Bow's March 16, 2006 memo. OER personnel will use the Foreign National Registration System (FRNS) to submit requests for access to NOAA facilities and ships. The Departmental Sponsor/NOAA (DSN) is responsible for obtaining clearances and export licenses and for providing escorts required by the NAO. DSNs should consult with their designated Deemed Exports point of contact to assist with the process.

The following are basic requirements. Full compliance with NAO 207-12 is required.

Responsibilities of the Expedition Coordinator:

1. Provide the Commanding Officer with the e-mail generated by the FRNS granting approval for the foreign national guest's visit. This e-mail will identify the guest's DSN and will serve as evidence that the requirements of NAO 207-12 have been complied with.
2. Escorts – The Expedition Coordinator is responsible to provide escorts to comply with NAO 207-12 Section 5.10, or as required by the vessel's DOC/OSY Regional Security Officer. For this cruise Jeremy Potter will act as an escort to the foreign national visiting guests.
3. Ensure all non-foreign national members of the scientific party receive the briefing on Espionage Indicators (NAO 207-12) at least annually or as required by the servicing Regional Security Officer.
4. Export Control - The NEFSC currently neither possesses nor utilizes technologies that are subject to Export Administration Regulations (EAR).

The Commanding Officer and the Expedition Coordinator will work together to implement any access controls necessary to ensure no unlicensed export occurs of any controlled technology onboard regardless of ownership.

Responsibilities of the Commanding Officer:

1. Ensure only those foreign nationals with DOC/OSY clearance are granted access.
2. Deny access to OMAO platforms and facilities by foreign nationals from countries controlled for anti-terrorism (AT) reasons and individuals from Cuba or Iran without written NMAO approval and compliance with export and sanction regulations.
3. Ensure foreign national access is permitted only if unlicensed deemed export is not likely to occur.
4. Ensure receipt from the Expedition Coordinator or the DSN of the FRNS e-mail granting approval for the foreign national guest's visit.

5. Ensure Foreign Port Officials, e.g., Pilots, immigration officials, receive escorted access in accordance with maritime custom to facilitate the vessel's visit to foreign ports.
6. Export Control - 8 weeks in advance of the cruise, provide the Expedition Coordinator with a current inventory of OMAO controlled technology onboard the vessel and a copy of the vessel Technology Access Control Plan (TACP). Also notify the Expedition Coordinator of any OMAO-sponsored foreign nationals that will be onboard while program equipment is aboard so that the Expedition Coordinator can take steps to prevent unlicensed export of Program controlled technology. The Commanding Officer and the Expedition Coordinator will work together to implement any access controls necessary to ensure no unlicensed export occurs of any controlled technology onboard regardless of ownership.
7. Ensure all OMAO personnel onboard receive the briefing on Espionage Indicators (NAO 207-12) at least annually or as required by the servicing Regional Security Officer.

Responsibilities of the Foreign National Sponsor:

1. Export Control - The foreign national's sponsor is responsible for obtaining any required export licenses and complying with any conditions of those licenses prior to the foreign national being provided access to the controlled technology onboard regardless of the technology's ownership.
2. The DSN of the foreign national shall assign an on-board Program individual, who will be responsible for the foreign national while on board. The identified individual must be a U.S. citizen, NOAA (or DOC) employee. According to DOC/OSY, this requirement cannot be altered.
3. Ensure completion and submission of Certification of Conditions and Responsibilities for a Foreign National Guest as required by NAO 207-12 Section 5.03.h.

Appendix A
UN Form A: Application for Consent to Conduct Marine Scientific Research in Areas Under National Jurisdiction of Republic of Indonesia

Appendix B
Indonesia foreign research vessel clearance

Appendix C
Data Management Plan